

## SPECIFICATION

### Tumor Necrosis Factor- $\alpha$ , Human, recombinant, Animal-derived-free for Cellbiology

| REQUIREMENT                   | SPECIFICATION              |
|-------------------------------|----------------------------|
| Appearance                    | to pass test               |
| Bacterial endotoxins          | less than 0.01 ng/ $\mu$ g |
| Electrophoresis test          | to pass test               |
| Mass spectrometry (MALDI-TOF) | to pass test               |

Source: E. coli expressed human tumor necrosis factor- $\alpha$